

SECTION J

J02 Military Ocean Terminal, MOTSU Potable Water System

Table of Contents

J02.1	MOTSU Overview	J02-1
J02.2	Water Distribution System Description.....	J02-1
J02.2.1	Water System Fixed Equipment Inventory.....	J02-1
J02.2.1.2	Inventory.....	J02-1
J02.2.2	Water Distribution System Non-Fixed Equipment and Specialized Tools Inventory	J02-3
J02.2.3	Water System Manuals, Drawings, and Records Inventory	J02-3
J02.3	Current Service Arrangement	J02-3
J02.4	Secondary Metering	J02-4
J02.4.1	Existing Secondary Meters.....	J02-4
J02.4.2	Required New Secondary Meters	J02-4
J02.5	Monthly Submittals	J02-4
J02.6	Energy Savings and Conservation Projects	J02-5
J02.7	Service Area	J02-5
J02.8	Off-Installation Sites	J02-5
J02.9	Specific Transition Requirements	J02-5
J02.10	Water Distribution System Points of Demarcation.....	J02-5
J02.10.1	Unique Points of Demarcation	J02-6
J02.11	Plants and Towers	J02-6

Lists of Tables

Table 1	Fixed Inventory Water Distribution System Inventory – MOTSU	J02-2
Table 2	Manuals, Drawings, and Records Water Distribution System – MOTSU.....	J02-3
Table 3	Points of Demarcation Water Distribution System – MOTSU	J02-6

J02 MOTSU Potable Water System

J02.1 MOTSU Overview

MOTSU is a major terminal of the Military Traffic Management Command located in southeast North Carolina. The facility is located along the Cape Fear River, approximately 5 miles north of Southport, North Carolina. MOTSU was initially constructed between 1951-1955. The U.S. Army purchased 9,250 acres of pine forest and riverfront property for the terminal and railroad lines. The terminal has grown over the years; currently it is comprised of 8,573 fenced acres, 5,050 unfenced acres on permanent easement, 2,115 acres that form an explosive safety buffer zone on the east side of the Cape Fear River in New Hanover County; a 652-acre rail holding yard northwest in Leland, North Carolina; and 6 acres in the city of Southport, North Carolina, on Fort Johnston. The mission of MOTSU is to plan, coordinate, and accomplish movement of ammunition and other dangerous cargo through MOTSU to support the Department of Defense. The terminal is a transshipment point for ammunition and other equipment required by U.S. military personnel and the North Atlantic Treaty Organization.

J02.2 Water System Description

Potable water at MOTSU is supplied by the Brunswick County Water Treatment Plant, which is located 15 miles to the north of the Installation. MOTSU is connected to the County distribution system by a 6-inch meter (6" to 12") flow line. This is a design parameter. The Brunswick County water treatment plant is contracted to supply 100,000 gallons per day. In addition to the water system, including the water treatment facility, there are two ground water wells, each with the capability of supplying 12,000 gallons per hour. The wells are used only as backup to maintain pressure and flow during fire fighting activities, as well as to keep the 500,000-gallon storage tank at a proper level.

J02.2.1 Water System Fixed Equipment Inventory

Existing facilities include the water distribution facilities and water storage. Potable water for the MOTSU water system is supplied by Brunswick County via a 6-inch meter (6" to 12") flow restricted line (this is a design parameter) and two ground water wells used only as backup. The two wells on MOTSU shall only be utilized for fire fighting activities on MOTSU and in emergencies (to supply water to MOSTSU in case the Brunswick County water supply is turned off for various reasons) to supply water to MOTSU only. In no case shall water be pumped from MOTSU's two wells or treatment plant into the Brunswick County Water System. The contract with the County permits MOTSU to purchase up to 0.4 MGD. The total daily average usage of water is 0.1 MGD. The general age of the system is 31 years, but the main supply from the County was installed in 1989. Prior to this date, groundwater wells supplied MOTSU's water distribution system. Additional water mains have been installed since 1989 to loop most of the mains within the facility.

J02.2.1.2 Inventory

Table 1 provides a general listing of the major water system fixed assets for the MOTSU water system included in the purchase. The system will be sold in an “as is, where is” condition without any warranty, representation, or obligation on the part of the Government to make any alterations, repairs, or improvements. Ancillary equipment attached to, and necessary for, operating the system, though not specifically mentioned herein, is considered part of the purchased utility.

Table 1
Fixed Inventory
Water Distribution System Inventory – MOTSU

Item	Size	Quantity	Unit	Average Year of Construction
Ductile Iron Pipe	14 in	50	LF	1967
Ductile Iron Pipe	12 in	7650	LF	1989
Ductile Iron Pipe	10 in	21000	LF	1967
Ductile Iron Pipe	8 in	3600	LF	1967
Ductile Iron Pipe	6 in	12985	LF	1967
Steel Pipe	6 in	1225	LF	1967
Steel Pipe	5 in	245	LF	1967
Steel Pipe	4 in	490	LF	1967
Steel Pipe	3 in	980	LF	1967
Steel Pipe	2.5 in	1750	LF	1967
Steel Pipe	2 in	560	LF	1967
Steel Pipe	1.5 in	490	LF	1967
Steel Pipe	1.25 in	90	LF	1967
Steel Pipe	1 in	525	LF	1967
Steel Pipe	0.75 in	85	LF	1967
PVC Pipe	10 in	9015	LF	1967
PVC Pipe	8 in	7910	LF	1989
PVC Pipe	6 in	2450	LF	1967
Asbestos Concrete Pipe	12 in	23575	LF	1967
Asbestos Concrete Pipe	10 in	17700	LF	1967
Asbestos Concrete Pipe	8 in	1600	LF	1967
Asbestos Concrete Pipe	6 in	3675	LF	1967
Asbestos Concrete Pipe	4 in	735	LF	1967
Gate Valves – steel	14 in	2	ea.	1967
Gate Valves – steel	12 in	24	ea.	1967
Gate Valves – steel	10 in	37	ea.	1967
Gate Valves – steel	8 in	14	ea.	1967
Gate Valves – steel	6 in	3	ea.	1967
Gate Valves – steel	5 in	2	ea.	1967
Gate Valves – steel	4 in	2	ea.	1967

Item	Size	Quantity	Unit	Average Year of Construction
Gate Valves – steel	3 in	6	ea.	1967
Gate Valves – steel	2.5 in	33	ea.	1967
Gate Valves – steel	2 in	10	ea.	1967
Gate Valves – steel	1.5 in	6	ea.	1967
Gate Valves – steel	1.25 in	3	ea.	1967
Gate Valves – steel	1.0 in	2	ea.	1967
Gate Valves – steel	0.75 in	1	ea.	1967
Gate Valves – PVC	8 in	4	ea.	1989
Hydrants	6 in	169	ea.	1967
Storage Tanks	500,000	1	Gallons	1967
Wells	12,000	2	Gallons/Hour	
Booster Pumping Station	400	1	Gallons/ Minute	1967

J02.2.2 Water Distribution System Non-Fixed Equipment and Specialized Tools Inventory

Offerors shall make their own determination of the adequacy of all equipment and tools. The successful contractor shall provide any and all equipment, vehicles, and tools, whether included in the purchase or not, to maintain a fully operating system under the terms of this contract. There have been no spare parts or specialized equipment or vehicles identified for transfer from the Government to the selected provider.

J02.2.3 Water System Manuals, Drawings, and Records Inventory

Table 2 lists the manuals, drawings, and records that will be transferred with the system.

Table 2
Manuals, Drawings, and Records
Water Distribution System – MOTSU

Quantity	Item	Description	Remarks
	Water Distribution System Base water distribution system and layout Drawings		May not have all drawings available

J02.3 Current Service Arrangement

Potable Water at MOTSU is supplied by the Brunswick County Water System. In an emergency situation, Brunswick can supply the MOTSU with an additional 400,000 gpd.

J02.4 Secondary Metering

MOTSU may require secondary meters for internal billings of their reimbursable customers, utility usage management, and energy conservation monitoring. The contractor shall assume full ownership and responsibility for existing and future secondary meters in accordance with (IAW) Clause C.3.

J02.4.1 Existing Secondary Metering

The contractor shall provide meter readings once a month for all secondary meters IAW C.3 and J02.5 below. There are no secondary meters to transfer.

J02.4.2 Required New Secondary Meters

There are no new secondary meters identified.

J02.5 Monthly Submittals

The contractor shall provide the Government monthly submittals for invoices (IAW G.2). The contractor's monthly invoice shall be presented in a format proposed by the contractor and accepted by the Contracting Officer. Invoices shall be submitted by the 25th of each month for the previous month. Invoices shall be submitted to the Government's Contracting Officer's designee. (This information will be provided upon award).

Outage Report – The contractor's monthly outage report will be prepared in the format proposed by the contractor and accepted by the Government's Contracting Officer. Outage reports shall include the following information for Scheduled and Unscheduled outages:

Scheduled: Requestor, date, time, duration, facilities affected, feedback provided during outage, outage notification form number, and digging clearance number.

Unscheduled: Include date, time and duration, facilities affected, response time after notification, completion times, feedback provided at time of outage, specific item failure, probability of future failure, long term fix, and emergency digging clearance number.

Outage reports shall be submitted by the 25th of each month for the previous month. Outage reports shall be submitted to the Government's Contracting Officer's designee. (This information will be provided upon award).

Meter Reading Report – The monthly meter report shall show the current and previous month readings for all secondary meters. The contractor's monthly meter reading report will be prepared in the format proposed by the contractor and accepted by the Government's Contracting Officer. Meter reading reports shall be submitted by the 15th of each month for the previous month. Meter reading reports shall be submitted to the Contracting Officer's designee. (This information will be provided upon award).

System Efficiency Report – If required by paragraph C.3, the contractor shall submit a system efficiency report in a format proposed by the contractor and accepted by the Contracting Officer. System efficiency reports shall be submitted by the 25th of each month for the previous month. System efficiency reports shall be submitted to the Contracting Officer’s designee. (This information will be provided upon award).

J02.6 Energy Savings and Conservation Projects

There are no Government energy conservation.

J02.7 Service Area

IAW Clause C.4, Service Area, the service area is defined as all the areas within the MOTSU boundaries.

J02.8 Off-Installation Sites

There are no off-Installation sites associated with this scope.

J02.9 Specific Transition Requirements

There are no service connections and disconnections required upon transfer. There are also no improvement projects required upon transfer of the MOTSU water system.

J02.10 Water Distribution System Points of Demarcation

The point of demarcation is defined as the point on the piping system where the ownership changes from the Grantee to the building owner. The table below identifies the general locations of these points with respect to the building served.

Table 3
Points of Demarcation
Water Distribution System – MOTSU

Point of Demarcation	Applicable Scenario	Sketch
Water Meter or Backflow Device, or Valve (closet apparatus to the exterior of the structure).	Water meter, backflow device, or valve is located on the service line entering the structure within 25 feet of the exterior of the structure.	<p>The sketch shows a rectangular box labeled 'Structure' on the left. A horizontal line representing the 'Service Line' enters the structure from the right. On this line, there is a rectangular box representing a 'Water Meter' with two small circles inside. An arrow points from the 'Distribution Pipe' (above) to the meter, and another arrow points from the meter to the 'Distribution Pipe' (below). The 'Point of Demarcation' is indicated by an arrow pointing to the meter. The 'Distribution Pipe' continues to the right, and the 'Service Line' continues to the right.</p>
Point where the service line enters the structure.	No water meter, backflow device, or valve exists on the service line entering the structure.	<p>The sketch shows a rectangular box labeled 'Structure' on the left. A horizontal line representing the 'Service Line' enters the structure from the right. The 'Point of Demarcation' is indicated by an arrow pointing to the line just before it enters the structure. The 'Distribution Pipe' continues to the right, and the 'Service Line' continues to the right.</p>

J02.10.1 Unique Points of Demarcation

There are no anomalous points of demarcation.

J02.11 Plants and Towers

There are no water collection plants and intended demarcation points.